QC ABSTRACT

NAME OF WORK: Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	11.68	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	81.27	10	10
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /101-150 cum	121.77	12	12

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-26-56** **Date: 14-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer's Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer Kodigehalli Sub Division Yelahanka Zone, B.B.M.P. Bangalore

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-26-56** **Date: 09-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer's Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-08-26-56** **Date: 09-09-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 12-08-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
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R KARTHIK RECHAN
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Yelahanka Zone, B.B.M.P.,
Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-56** **Date: 14-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer's Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-26-56** **Date: 14-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.39	–
5	Bulk Density(Compacted) (Kg/l)	1.46	–
6	Water Absorption(%)	0.22	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-56** **Date: 13-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-26-56** **Date: 13-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-26-56** **Date: 13-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Page 1/2

Assistant Executive Engineer.
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M.P.,
Bang

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-26-56**

Date: 13-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Authorized Signatory
Quality Manager

Assistant Executive Engineer
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Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2020-08-26-56** **Date: 12-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-08-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 11-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 25/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2020	25/08/2020	150.01 X 149.29 X 149.49	22395	**8.699**	289.4	12.9	12.6
2	PCC	M15	18/08/2020	25/08/2020	149.53 X 149.42 X 150.65	22343	**8.758**	268.4	12.0	
3	PCC	M15	18/08/2020	25/08/2020	151.57 X 151.98 X 149.50	23036	**8.512**	296.9	12.9	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 15/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2020	15/09/2020	151.45 X 149.38 X 150.48	22624	**8.668**	384.6	17.0	17.2
2	PCC	M15	18/08/2020	15/09/2020	151.64 X 150.38 X 151.93	22803	**8.569**	390.8	17.1	
3	PCC	M15	18/08/2020	15/09/2020	149.20 X 150.21 X 150.05	22410	**9.045**	392.0	17.5	

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****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 25/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2020	25/08/2020	151.82 X 149.38 X 150.22	22679	**8.699**	281.2	12.4	12.5
2	PCC	M15	18/08/2020	25/08/2020	151.16 X 151.84 X 149.77	22952	**8.758**	295.5	12.9	
3	PCC	M15	18/08/2020	25/08/2020	151.04 X 149.01 X 149.32	22506	**8.512**	277.7	12.3	

Note:
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 15/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/08/2020	15/09/2020	150.83 X 150.38 X 150.79	22682	**8.668**	398.9	17.6	17.2
2	PCC	M15	18/08/2020	15/09/2020	151.38 X 151.34 X 150.25	22910	**8.569**	390.6	17.0	
3	PCC	M15	18/08/2020	15/09/2020	149.66 X 149.05 X 151.08	22306	**9.045**	380.0	17.0	

Note:

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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	149.53 X 150.58 X 150.02	22517	**8.788**	410.7	18.2	18.5
2	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	150.25 X 151.50 X 151.45	22763	**8.259**	425.3	18.7	
3	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	150.28 X 150.23 X 150.23	22577	**8.562**	416.5	18.4	

Note:
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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bengaluru-92

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	150.24 X 149.03 X 150.41	22390	**8.361**	527.0	23.5	23.4
2	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	150.00 X 150.72 X 149.44	22607	**8.364**	517.3	22.9	
3	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	151.96 X 150.87 X 149.90	22926	**8.950**	548.0	23.9	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P, Bangalore.

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	151.41 X 150.52 X 151.79	22790	**8.788**	416.8	18.3	18.7
2	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	149.34 X 150.73 X 150.89	22511	**8.259**	427.1	19.0	
3	Drain Bottom Slab Concrete	M20	21/08/2020	28/08/2020	151.86 X 149.84 X 150.61	22754	**8.562**	429.0	18.9	

Note:

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R KARTHIK RECHAN
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Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	151.65 X 149.02 X 149.27	22599	**8.361**	524.0	23.2	23.2
2	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	149.65 X 149.90 X 149.51	22432	**8.364**	507.3	22.6	
3	Drain Bottom Slab Concrete	M20	21/08/2020	18/09/2020	151.76 X 151.36 X 151.72	22970	**8.950**	543.5	23.7	

Note:

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Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	149.48 X 151.85 X 150.73	22698	**9.072**	409.5	18.0	18.3
2	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	151.28 X 150.24 X 149.54	22728	**8.691**	419.1	18.4	
3	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	149.76 X 149.59 X 150.38	22404	**8.537**	410.8	18.3	

Note:
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R KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	150.41 X 149.83 X 150.67	22535	**8.694**	530.1	23.5	23.1
2	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	150.18 X 151.80 X 150.46	22797	**8.530**	501.7	22.0	
3	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	151.57 X 150.25 X 150.51	22774	**8.970**	542.0	23.8	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	150.94 X 150.21 X 149.02	22672	**9.072**	408.2	18.0	18.4
2	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	149.16 X 149.23 X 149.37	22259	**8.691**	420.7	18.9	
3	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	149.58 X 150.01 X 150.46	22439	**8.537**	409.9	18.3	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	149.37 X 150.07 X 149.69	22416	**8.694**	527.8	23.5	23.2
2	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	151.11 X 150.41 X 151.17	22729	**8.530**	506.0	22.3	
3	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	149.65 X 150.74 X 151.06	22558	**8.970**	537.3	23.8	

Note:
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Authorized Signatory
Quality Manager

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****End of Report****

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-08-26-56** **Date: 01-09-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-08-20

Sample Type /Size : Precast Cover Slab - 100 mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-08-26-56** **Date: 01-09-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-08-20

Sample Type /Size : Precast Cover Slab -250 mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	80.9	2.6	2.4	3.0
2	Cover Slab-2	200.49	250.52	3.122	31564	82.3	2.6	2.4	3.0
3	Cover Slab-3	200.50	250.51	3.118	31567	81.5	2.6	2.4	3.0

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 05-09-20

Lab ID	:	**CP-2020-08-26-56**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer's Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-09-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	02-09-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	149	202	11979	31.527	2631.9	2666.8	Not less than 1800Kg/m^3
2	403	150	200	12090	31.947	2642.4		
3	400	148	202	11958	32.598	2726.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2020-08-26-56** **Date: 05-09-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	152	60911	284.1	4.7	4.5
2	402	152	61076	279.3	4.6	
3	401	149	59770	253.0	4.2	
4	403	151	60814	272.3	4.5	
5	403	149	59979	264.4	4.4	
6	399	150	59909	274.4	4.6	
7	400	152	60743	272.3	4.5	
8	404	152	61363	258.0	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	150.96 X 150.89 X 149.93	22779	**9.072**	416.8	18.3	18.1
2	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	150.08 X 150.36 X 151.01	22567	**8.691**	406.5	18.0	
3	Drain Side Wall Concrete	M20	24/08/2020	31/08/2020	151.14 X 150.83 X 149.06	22797	**8.537**	411.9	18.1	

Note:

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Quality Manager

Assistant Executive Engineer,
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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	149.52 X 151.12 X 151.04	22595	**8.694**	530.7	23.5	23.3
2	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	150.69 X 151.20 X 151.87	22785	**8.530**	523.9	23.0	
3	Drain Side Wall Concrete	M20	24/08/2020	21/09/2020	152.00 X 151.00 X 150.04	22951	**8.970**	535.8	23.3	

Note:
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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 07/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.42 X 151.56 X 150.56	22949	**8.131**	585.0	25.5	25.6
2	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	149.34 X 151.35 X 151.53	22603	**8.955**	597.7	26.4	
3	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.05 X 149.86 X 151.79	22635	**8.891**	561.9	24.8	

Note:

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Quality Manager

Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/09/2020

Lab ID	:	**CP-2020-08-26-56**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003
Customer's Reference	:	BBMP/EE/BTP/WO/08/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-09-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	151.41 X 150.87 X 150.71	22843	**8.421**	770.4	33.7	33.4
2	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	150.64 X 149.27 X 149.91	22486	**8.125**	737.6	32.8	
3	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	149.96 X 151.44 X 150.24	22711	**8.340**	763.5	33.6	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 07/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.61 X 150.63 X 150.40	22838	**8.131**	582.0	25.5	25.4
2	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.67 X 150.61 X 150.28	22843	**8.955**	606.8	26.6	
3	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.74 X 150.87 X 150.57	22893	**8.891**	556.3	24.3	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 28/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	149.37 X 149.39 X 150.55	22314	**8.421**	748.1	33.5	33.0
2	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	150.35 X 149.75 X 151.88	22514	**8.125**	720.8	32.0	
3	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	151.09 X 150.60 X 151.05	22756	**8.340**	762.1	33.5	

Note:

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Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, BBMP,
Bangalore

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 07/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	150.91 X 151.82 X 149.63	22911	**8.131**	591.9	25.8	25.8
2	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	151.19 X 150.79 X 150.95	22798	**8.955**	605.2	26.5	
3	Cement Concrete Pavement	M30	31/08/2020	07/09/2020	150.08 X 150.57 X 151.92	22597	**8.891**	562.9	24.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 28/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	149.44 X 151.42 X 149.44	22628	**8.421**	769.3	34.0	33.2
2	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	149.74 X 149.36 X 150.53	22365	**8.125**	730.5	32.7	
3	Cement Concrete Pavement	M30	31/08/2020	28/09/2020	149.27 X 151.98 X 149.30	22685	**8.340**	749.4	33.0	

Note:
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Quality Manager

****End of Report****

As Asst. Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 08/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	151.69 X 150.35 X 149.95	22807	**8.621**	579.3	25.4	25.5
2	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	151.03 X 149.74 X 149.64	22614	**8.415**	595.3	26.3	
3	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	150.41 X 149.04 X 151.82	22416	**8.197**	558.2	24.9	

Note:

The results pertain to the samples received and tested.
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Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-56** **Date: 29/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	150.12 X 151.00 X 151.00	22668	**8.848**	761.8	33.6	33.3
2	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	150.74 X 149.23 X 150.63	22495	**8.205**	742.1	33.0	
3	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	151.18 X 150.14 X 149.93	22698	**8.195**	754.1	33.2	

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Project Name : Improvements to Roads, Drains and Culverts at Kodigehalli Village and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri. Ganguureddy.A , #490/B, 12th Cross, Vyalikaval, Malleshwaram, Bangalore-560 003

Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	151.48 X 150.49 X 149.52	22797	**8.621**	591.6	26.0	25.7
2	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	151.41 X 149.82 X 149.53	22684	**8.415**	597.6	26.3	
3	Cement Concrete Pavement	M30	01/09/2020	08/09/2020	151.44 X 151.53 X 149.26	22948	**8.197**	566.9	24.7	

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Customer's Reference : BBMP/EE/BTP/WO/08/2020-21

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Sample Condition : Satisfactory

Date of Receipt : 03-09-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	149.83 X 149.35 X 151.35	22377	**8.848**	751.4	33.6	33.1
2	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	150.20 X 149.55 X 151.69	22464	**8.205**	721.4	32.1	
3	Cement Concrete Pavement	M30	01/09/2020	29/09/2020	150.63 X 151.72 X 150.36	22854	**8.195**	766.6	33.5	

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